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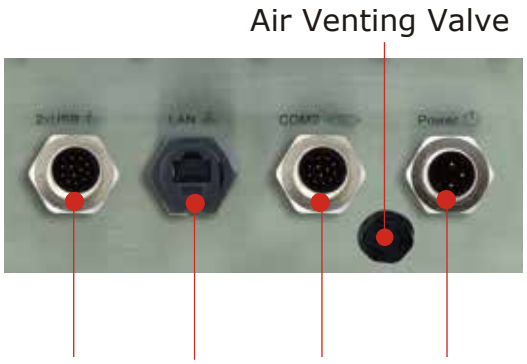
19" Flat Stainless P-Cap IP69K Panel PC (Intel® Celeron Bay Trail-M N2930 1.83GHz)

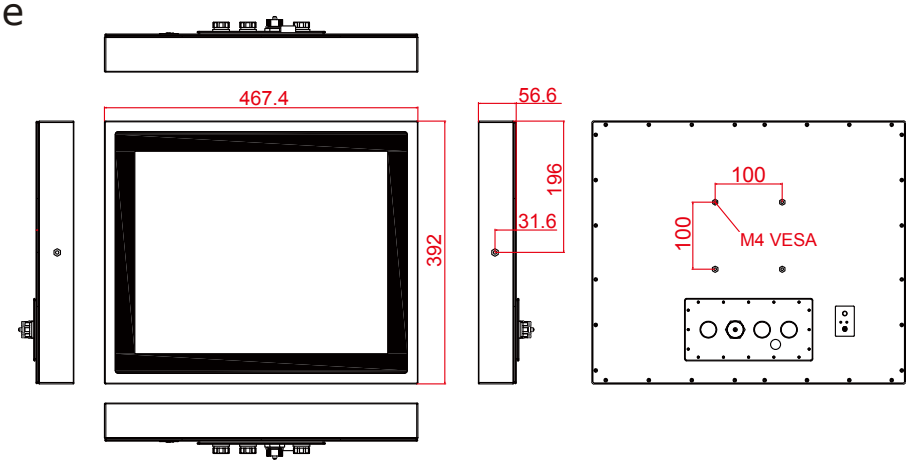
Flat Stainless P-Cap Chassis — MODEL #: R19IB3S-SPM169

Features:

- Intel® Celeron Bay Trail-M N2930 1.83GHz Processor
- Stainless housing, built to withstand the most demanding industries
- Sealed to IP69K for protection against water and dust
- A true flat, easy-to-clean front surface with edge-to-edge design
- Flat multi-touch panel pc with superior readability and P-Cap technology
- Various mounting solutions, Yoke mount and VESA mount
- Plenty of I/O s including USB 2.0, RS232 serial port and RJ45-10/100/1000 LAN ports
- Waterproof ports with adapter cables for external connectivity
- Support Glove / Rain mode (Optional)

Waterproof connector / cable





* Note: this is a simplifie d drawing and some components are not marked in detail. Please contact our sales representative if you need further product information.

System Specifications

TFT Characteristics

• Resolutions	:	1280 x 1024
• Brightness	:	250 cd/m² (typ.)
• Contrast Ratio	:	1000 : 1(typ.)
• Viewing Angles	:	-85~85(H);-80~80(V)
• Max Colors	:	16.7M
• Touchscreen	:	P-cap (Default), Glass (Optional)

SBC Specifications :

• Processor	:	Intel® Celeron Bay Trail-M N2930 1.83GHz
• BIOS	:	AMI 16Mbit Flash
• System Chipset	:	Intel® Atom SoC Integrate
• Memory Slot	:	1 x SO-DIMM, Default 4GB, Max 8GB DDR3L 1600
• Storage	:	Default 64GB Mini PCIe SATA III
• Graphic Chipset	:	Integrated HD Graphics
• Ethernet	:	2 x RJ45 Gigabit LAN (1 x RJ45 internal)
• Audio	:	Built in ALC886 HD Audio Codec
• USB	:	6 x USB2.0 (4 x USB internal)
• Serial	:	4 x RS232 (3 x RS232 internal)
• Expansion Slot	:	1 x Mini PCIe (Internal)
• SSD Interface	:	1 x Mini PCIe SSD
• Power Input	:	DC-IN (Lockable, Power Jack)
Certification	:	CE, FCC, RoHs
• Security	:	Trusted Platform Module (TPM 1.2)

Power Specifications :

• Power Input	:	12V DC IN (Lockable Power Jack)
• Power Consumption	:	45W (typ.)(Max.backlight & high CPU load)

Environment Considerations :

• Operating Temperature	:	0 deg.C to 45deg.C
• Operating Humidity	:	30% to 90% (non condensing)
• IP Rating	:	IP69K, air venting valve

Input/ Output Connectors :

• Ethernet LAN	:	1 X RJ45-10/100/1000 Mbps
• COM	:	1 X RS232
• USB	:	2 x USB
• Power	:	1 X 12VDC

Accessories :

- External Power Supply 80W w/power cord
- LAN Cable
- Serial Cable
- USB Cable
- VESA screws

Order Options :

SBC		PANEL PC	
RAM	: SODIMM DDR3L Max 8GB	OS	: Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro Windows Embedded 8 Standard Windows Embedded 7 Standard
Storage	: 2.5" HDD/Mini PCIe SSD		

FC CE RoHS COMPLIANT 2011/65/EU

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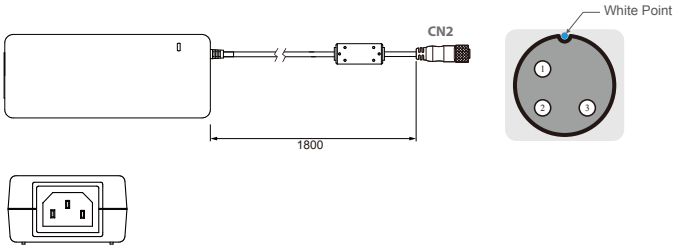
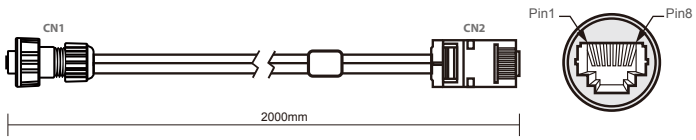
Pin Assignment of cables

Power Cable



Pin No.	Symbols	Color		Pin No.	Symbols	Color
CN1-1	VIN -	NO ASSIGN	⟷	CN2-1	VCC+	Flow Adapter
CN1-2	VIN -	NO ASSIGN	⟷	CN2-2	GND	Flow Adapter
CN1-3	VIN -	NO ASSIGN	⟷	CN2-3	VCC -	Flow Adapter

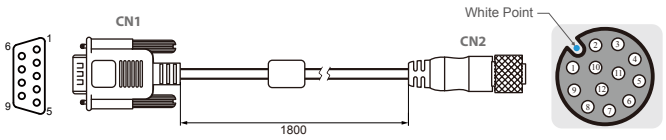
LAN Cable



Plug	Wire Color	Conn.	
1	Orange / White	1	Twist
2	Orange	2	
3	Green / White	3	Twist
4	Blue	4	
5	Blue / White	5	Twist
6	Green	6	
7	Brown / White	7	Twist
8	Brown	8	

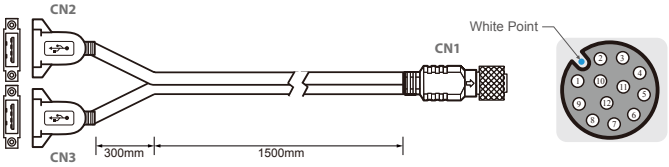
Twist

RS232 Cable



Pin No.	Symbols	Color		Pin No.	Symbols	Color
CN1-1	DCD-CON2	Green	⟷	CN2-1	DCD-CON2	Green
CN1-6	DSR-CON2	Brown	⟷	CN2-2	DSR-CON2	Brown
CN1-2	RXD-CON2	Red	⟷	CN2-3	RXD-CON2	Red
CN1-7	RTS-CON2	Orange	⟷	CN2-4	RTS-CON2	Orange
CN1-3	TXD-CON2	Blue	⟷	CN2-5	TXD-CON2	Blue
CN1-8	CTS-CON2	White	⟷	CN2-6	CTS-CON2	White
CN1-4	DTR-CON2	Purple	⟷	CN2-7	DTR-CON2	Purple
CN1-9	RI-CON2	Yellow	⟷	CN2-8	RI-CON2	Yellow
CN1-5	GND-CON2	Black	⟷	CN2-9	GND-CON2	Black

USB Cable



Pin No.	Symbols	Color		Pin No.	Symbols	Color	
CN1-2	VCC	RED	⟷	CN2-1	VCC	RED	
CN1-3	D-	WHITE	⟷	CN2-2	D-	WHITE	twisted pair
CN1-4	D+	GREEN	⟷	CN2-3	D+	GREEN	twisted pair
CN1-5	GND	BLACK	⟷	CN2-4	GND	BLACK	
CN1-6	VCC	RED	⟷	CN3-1	VCC	RED	
CN1-7	D-	WHITE	⟷	CN3-2	D-	WHITE	twisted pair
CN1-8	D+	GREEN	⟷	CN3-3	D+	GREEN	twisted pair
CN1-9	GND	BLACK	⟷	CN3-4	GND	BLACK	
CN1-1	GND	Braid	⟷	Braid connect to the housing			

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